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V340/V640 OGI Infrared Camera for Gas Leak Detection

The Cantronic Systems' **V340/V640 Optical Gas Imaging (OGI)** camera offers unmatched gas leak detection capabilities. This OGI camera can detect the smallest leaks of more than 400 different VOC gases and has a spectral response from 3.2u m to 3.5u m wavelength.

The **V340/V640** integrates **KT Photonics®**' most advanced **High Operating Temperature (HOT)** mid-IR OGI infrared detector giving the ability to quickly visualize gas leaks and to accurately pinpoint the source. With real-time crystal-clear images, users can scan large industrial areas rapidly, improving the efficiency of leak detection and remedy operations.

- Exceptional image quality to quickly and accurately identifies leaks.
- Advanced HOT MWIR Infrared detector that has high sensitivity, low power, whisper quiet cooler with extending operational life.
- Live scenes display with gas leak plume overlay. On-board video, voice recording and snapshot function.

		Specifications	
		V340	V640
Detector	Detector type	High Operating Temperature (HOT) Mid-wave T2SL, Long life	
	IR resolution	320x256	640x512
	Detector pitch	30µm	15 µm
	Spectral response	3.2~3.5 µm	
	NETD	≤12mK	≤20mK
	F-number	1.2	
Lens	Focal length	35mm	23mm
	FOV	15°x12°	24°x19°
	Focus	Manual/Automatic	
Interface	Video output	HDMI	
	Data protocol	Type-C, mini HDMI, TF card	
	Memory storage	Yes	
	Power supply	DC12V 3A	
Power system	Battery type	Liion battery	
	Battery operating time	>3.5 h at 30° C and typical use	
	Charging type	Charger	
Environmental	Operating temperature range	-10°C~50°C	
	Storage temperature range	-40°C~60°C	
	Humidity	≤95°C (no condensation)	

		Specifications	
		V340	V640
Digital visual camera	Imaging sensor	1/2.7 inch CMOS	
	Resolution	16 million pixels	
	Focal Length	8 mm	
	FOV	40° x 30°	
Image	Image modes	Visible/IR image	
	Digital image enhancement	Edge and detail enhancement	
	Zoom	Yes (x8)	
	Snapshot	Yes	
Video	Palettes	12: white hot, black hot iron...	
	Video recording	Yes	
	Video format	H.264/MJPEG	
	Image preview	Support thumbnail navigation	
Extra data	Cool-down time	<5 min	
	Capacity check	Real-time display of battery level	
Physical data	LCD display	5.5 inch screen: 1920x1080	
	Weight	≤2.8 kg	
	Camera size including lens (LxWxH)	311x196x195 mm	
	Lens size	80mm x 55mm	

Detectable gases

400+ compounds: Methane, Acetic acid, Benzene, Butadiene, Butene, Dimethyl-Benzene, Ethane, Ethylene, Ethyl Benzene, Ethylene oxide, Hexane, Heptane, Isobutylene, Isopropyl alcohol, Isoprene, Methanol, MEK, Methyl Ethyl Ketone, Octane, Pentene, Propane, Propana.

Applications:

- Natural gas pipeline valves
- Oil storage
- Transportation of finished oil and hazardous chemicals
- Environmental law enforcement
- Oils and gas transmission pipeline
- Unorganized emission of VOCs



U340 Aerial OGI Camera for VOCs and Methane Gas Leak Detection

Aerial OGI Camera for **VOCs** and methane gas leak detection is designed for the leak detection of methane and other volatile organic compounds. The **U340** camera is designed to be paired up with the M300 RTK UAV/ Drone or newer.

The infrared camera uses a high-sensitive **320x256** or **640x512** medium wave cooled infrared detector/ Through **UAV** image transmission, the dual vision image of **VOCs** gas leak status can be observed with mobility in real time. The system is suitable for real-time online detection of **VOCs** gas leak in industrial fields, such as refineries offshore oil and gas extraction platforms, natural gas storage and transportation sites, chemical industries, biogas plants and power stations.

- Visualize VOCs gas
- Image/video from a safe distance
- Plan the inspection path
- Efficient and fast inspection
- Non-destructive non-contact inspection
- Automatic sampling at inspection points

	U340
System configurations	One DJI M300RTK and one aerial OGI camera
Detector type	HOT T2SL
Detector resolution	320x256
Detector pitch	30µm
Spectral response	3.2~3.5 µm
NETD	≤15mK
Focal length	23mm
FOV	24°x19°
Digital image enhancement	Equipped with automatic image filtering and digital detail enhancement functions
image adjustment	Brightness and contrast
Image color	8 types of back heat, white hear, and fake color
Digital zoom	1-8 times continuous
Image mode	Temperature measurement mode, ordinary mode, gas mode
measurements temperature range	-20°C~+500°C
Operating temperature	-20°C~+60°C
Image output	Micro HDMI maximum output image support 1920x1080
Interface	DJI H.264 USB/HDMI
Storage	64G TF card can store images and vides files with temperature data
Voltage	DC10-28V
Cool-down time	<6min (room temperature)
Weight	≤800g (without lens)
Size	140mmx85mmx95mm (without lens)

Detectable gases

400+ compounds: Methane, Acetic acid, Benzene, Butadiene, Butene, Dimethyl-Benzene, Ethane, Ethylene, Ethyl Benzene, Ethylene oxide, Hexane, Heptane, Isobutylene, Isopropyl alcohol, Isoprene, Methanol, MEK, Methyl Ethyl Ketone, Octane, Pentene, Propane, Propana.

Applications:

- Natural gas pipeline valves
- Oil storage
- Transportation of finished oil and hazardous chemicals
- Environmental law enforcement
- Oils and gas transmission pipeline
- Unorganized emission of VOCs



M330/M630 Fixed OGI Camera for VOCs and Methane Gas Leak Detection

Cantronic System's models **M330** and **M630** fixed **OGI** cameras, used for on-line, real-time VOCs and methane gas leak detection.

The system comes in a pan/tilt dual vision arrangement and it provides 24/7 visualization and detection of gas leaks. The camera is made of corrosion resistant 304 stainless steel that ensures the safe and stable operation of the equipment in demanding environments.

The dual vision image of gas leak can be observed through a network. It is ideal for monitoring and detect **VOCs** and methane gas leaks, identifying their source and locations in industries and facilities such as: refineries, oil and gas storage tanks, natural gas storage and transportation facilities, chemical/petrochemical plants, biogas plants and power stations.

M 330 uses a high sensitive **320x256** pixels **HOT T2SL** cooled **OGI** detector while **M630** uses a **640x512** pixels **HOT T2SL OGI** detector.

- Visualize gas leak
- Video evidence for reports
- Non-destructive and non-contact inspection
- Intelligent analysis platform

Infrared Camera		
Detector type	HOT T2SL Cooled Detecor	
Resolution	320x256	640x512
Pixel pitch	30µm	15 µm
Spectral response	3.2~3.5 µm	
NETD	≤15mK	≤20mK
F number	1.2	
Focal length	35mm	50mm
FOV	15°x12°	11°x9°
Cool-down time	≤5min	
Visible Camera		
CMOS sensor	1/2.8"	
Resolution	1920x1080	
Minimum illumination	Color 0.05lux (F1.6, AGC ON) Black & white 0.01lux (F1.6, AGC ON)	
Focal length	4.8-120mm	
Zoom	Optical zoom x25 times	
Frame Rate	PAL: 25fds/50fps NTSC: 30fps/60fps	
Pan/tilt		
Horizontal pan range	360° rotation	
Vertical tilt range	+45°~-90°	
Horizontal pan speed	0.1°~40°/s	
Vertical tilt speed	0.1°~40°/s	
Resolution	<0.1°	
Presets	255	
Cruise Scan	8, 32 cruise sites	
Communication interface	RJ45x2	
Working temperature	-40°~65°	
Humidity	≤90% RH (without condensation)	
IP rating	IP68 (1.2m/45min)	
Explosion proof	Exd II C T6 Gb	
Power supply	DC 24V	
Weight	≤26 KG	
Size	468x330x418mm	

Detectable gases

400+ compounds: Methane, Acetic acid, Benzene, Butadiene, Butene, Dimethyl-Benzene, Ethane, Ethylene, Ethyl Benzene, Ethylene oxide, Hexane, Heptane, Isobutylene, Isopropyl alcohol, Isoprene, Methanol, MEK, Methyl Ethyl Ketone, Octane, Pentene, Propane, Propana.